

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P946967

Luminaire Tested: **GALN-SB2B-950-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-950-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7939 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

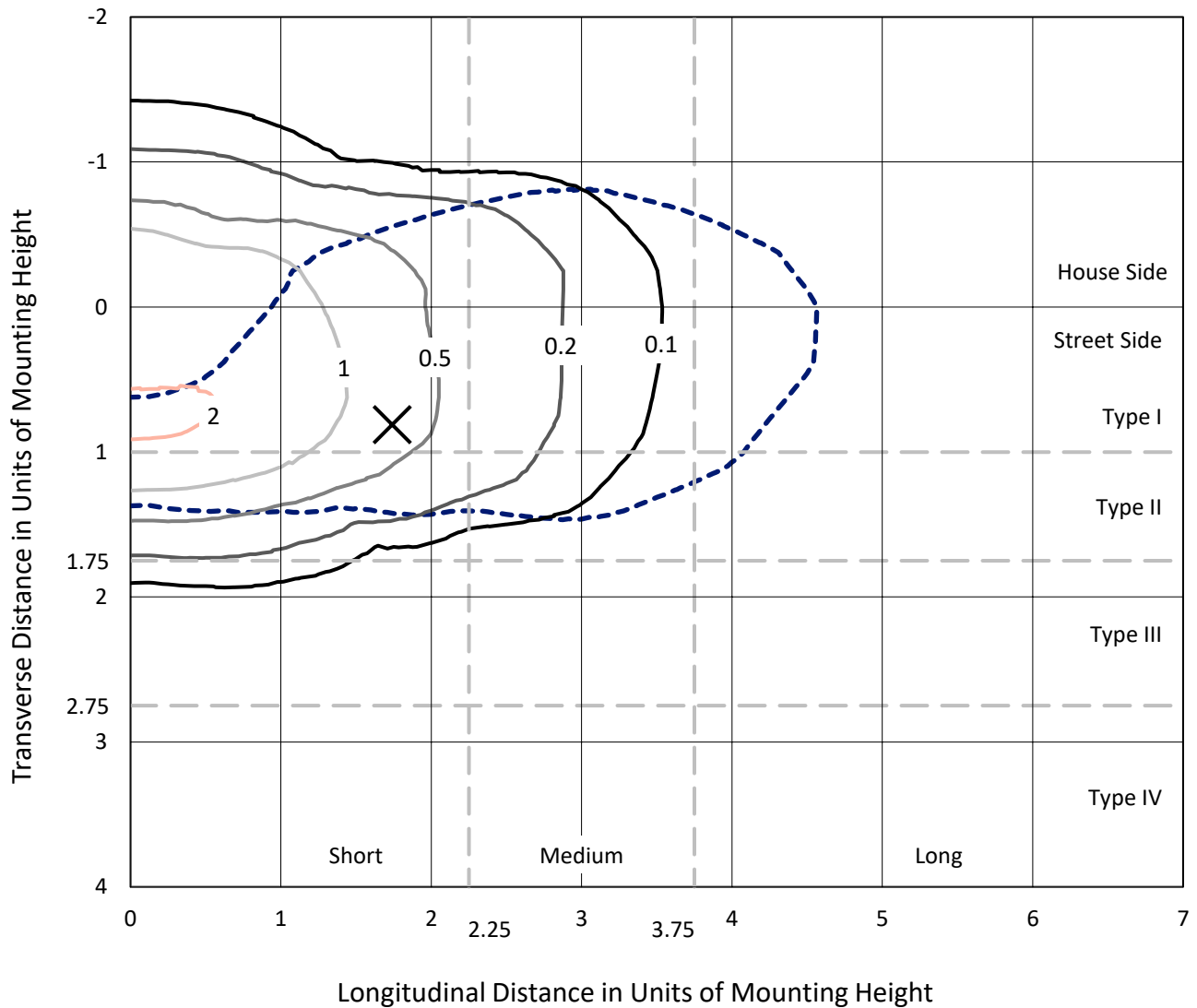
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

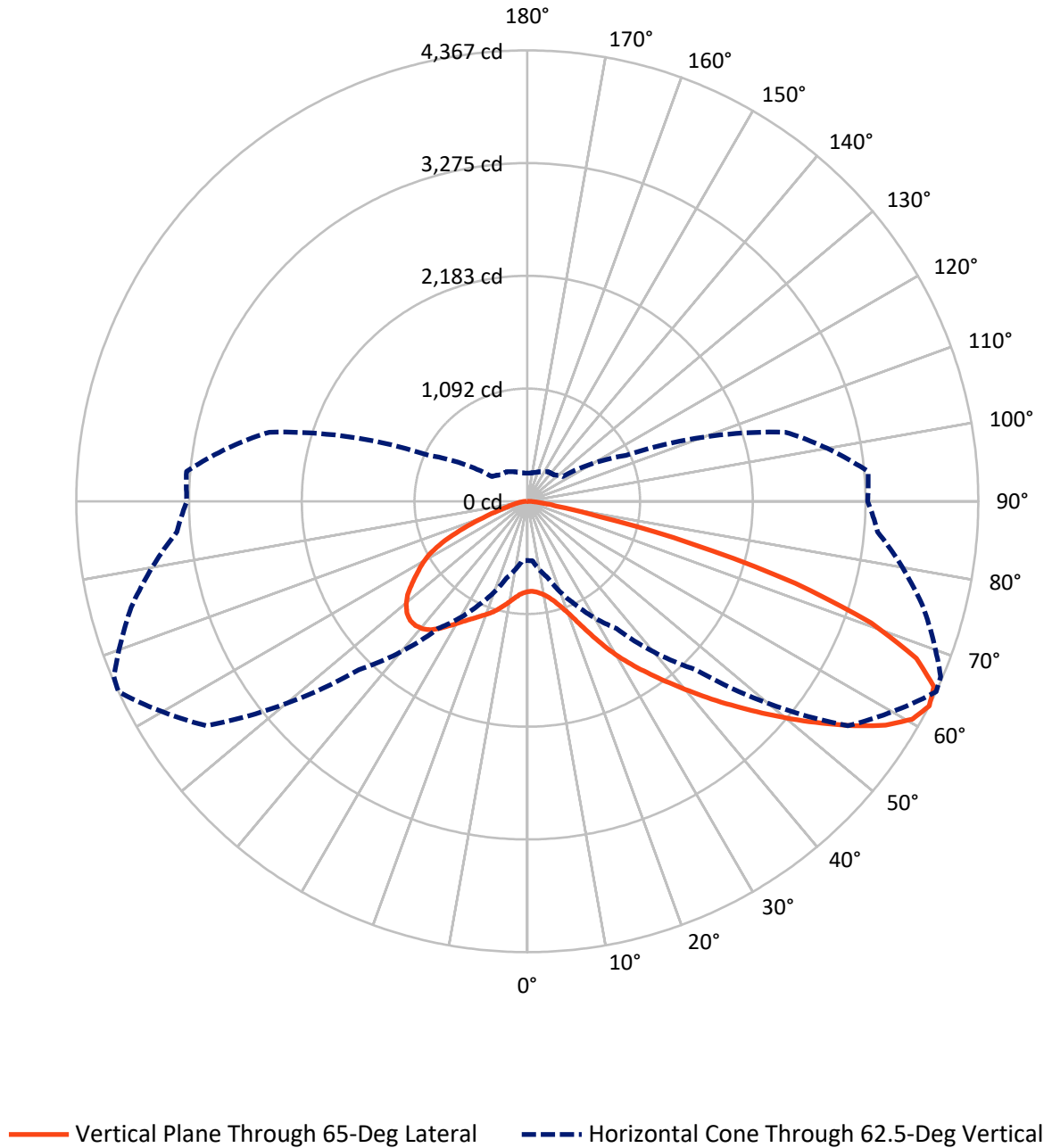
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2505.2	0.0	2505.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5433.8	0.0	5433.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	7939.0	0.0	7939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.1
10°-20°	295.8	3.7
20°-30°	599.7	7.6
30°-40°	1037.8	13.1
40°-50°	1570.5	19.8
50°-60°	1841.3	23.2
60°-70°	1543.7	19.4
70°-80°	852.3	10.7
80°-90°	110.7	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7939.0	100.0
0°-180°	7939.0	100.0

Coefficient of Utilization

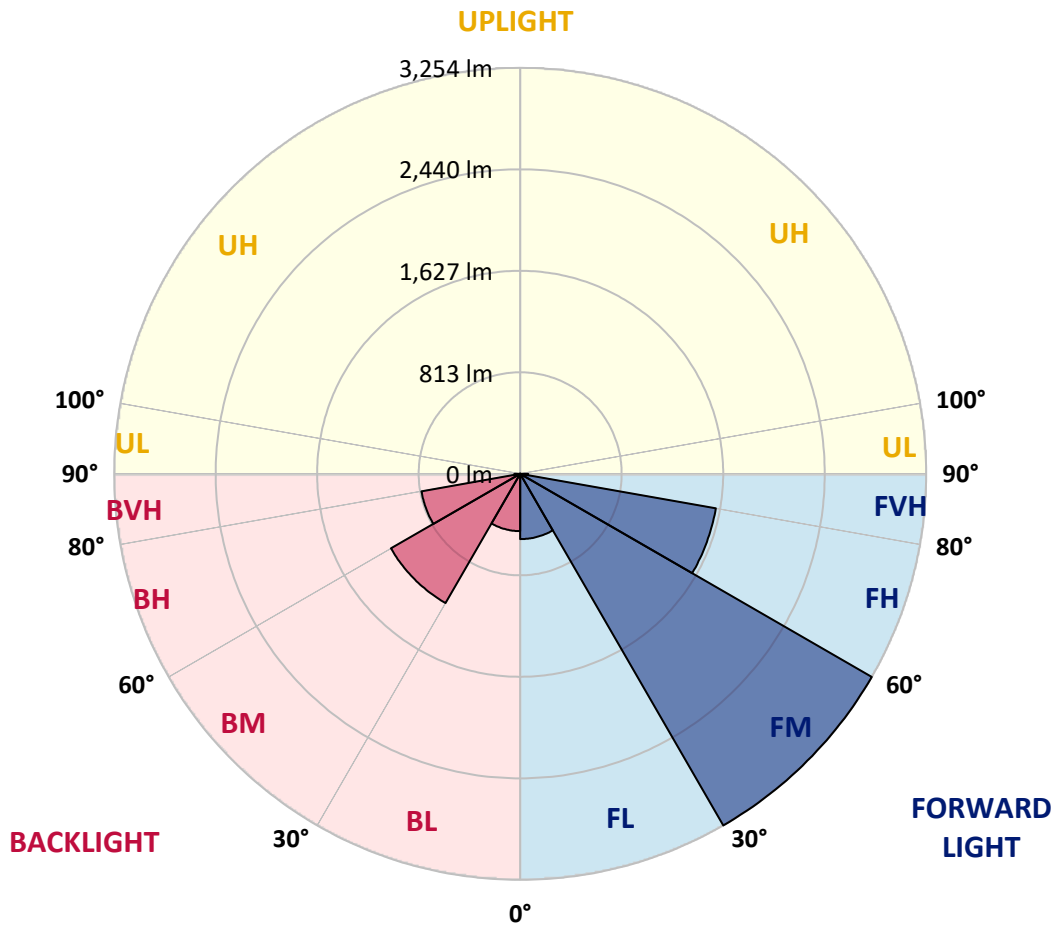


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	523.3	6.6			
FM (30°-60°)	3253.7	41.0			
FH (60°-80°)	1592.3	20.1			G1/1800
FVH (80°-90°)	64.5	0.8			G1/100
BL (0°-30°)	459.4	5.8	B1/500		
BM (30°-60°)	1195.9	15.1	B2/2500		
BH (60°-80°)	803.6	10.1	B2/1000		G2/1000
BVH (80°-90°)	46.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	874.8	874.8	874.8	874.8	874.8	874.8	874.8	874.8	874.8	874.8
2.5°	869.1	866.6	868.7	868.7	869.5	869.1	872.0	872.8	874.0	876.5
5°	860.4	860.0	863.7	867.0	870.3	873.2	876.9	882.3	883.1	886.0
7.5°	857.5	855.1	860.8	865.0	872.8	879.8	889.7	898.7	902.4	903.7
10°	879.8	875.7	881.0	883.5	890.1	897.1	908.6	923.0	927.2	932.1
12.5°	917.7	913.1	921.0	924.7	930.9	937.0	944.9	958.9	960.9	970.0
15°	969.6	964.2	969.2	973.7	984.0	989.8	997.6	1011.2	1011.2	1018.2
17.5°	1040.0	1033.0	1036.7	1038.4	1045.0	1053.6	1066.8	1078.7	1084.9	1082.4
20°	1145.0	1136.4	1136.4	1128.2	1125.7	1132.7	1150.0	1166.5	1173.0	1160.3
22.5°	1302.8	1290.4	1283.4	1255.4	1244.3	1245.1	1262.4	1282.6	1288.0	1265.3
25°	1503.4	1484.0	1474.5	1433.4	1408.2	1386.4	1400.0	1425.9	1433.4	1405.4
27.5°	1704.0	1705.2	1696.1	1646.7	1605.1	1565.2	1558.2	1585.3	1593.2	1561.5
30°	1985.3	1956.0	1938.7	1879.4	1820.1	1764.1	1735.3	1746.4	1748.5	1710.6
32.5°	2227.9	2220.5	2183.4	2131.5	2055.3	1967.6	1919.4	1901.7	1898.4	1844.4
35°	2504.3	2500.1	2461.0	2399.2	2316.9	2194.9	2108.0	2057.4	2053.2	1977.5
37.5°	2785.2	2785.2	2746.9	2679.3	2594.1	2441.7	2309.4	2229.1	2215.9	2117.1
40°	3009.2	2995.6	3002.6	2974.2	2876.6	2714.7	2533.1	2416.5	2398.8	2280.2
42.5°	3136.5	3132.0	3174.0	3205.7	3165.7	3036.4	2779.4	2619.6	2594.9	2459.8
45°	3164.9	3160.0	3234.9	3351.1	3407.1	3354.0	3047.1	2833.4	2803.3	2647.6
47.5°	3099.4	3089.5	3199.5	3382.8	3562.4	3655.9	3337.1	3065.2	3021.6	2830.5
50°	2902.6	2893.1	3059.5	3302.9	3614.7	3861.0	3651.8	3311.1	3244.4	3026.5
52.5°	2474.6	2479.1	2739.9	3074.3	3545.9	3988.7	3922.8	3570.2	3489.9	3227.1
55°	1927.6	1937.5	2258.0	2626.2	3270.8	3969.3	4107.7	3837.1	3757.2	3415.8
57.5°	1380.2	1423.9	1724.1	2088.7	2742.3	3662.5	4148.1	4090.8	4013.4	3621.7
60°	894.6	902.4	1211.4	1578.8	2088.3	3117.1	4066.1	4283.2	4222.6	3831.8
62.5°	573.3	578.7	766.9	1104.3	1503.0	2306.1	3790.2	4366.8	4348.3	3970.6
65°	421.4	417.2	515.3	729.9	1012.4	1422.2	3254.3	4326.4	4363.1	4057.5
67.5°	351.7	346.0	394.2	505.4	745.9	807.7	2407.9	4064.1	4198.3	4047.6
70°	320.4	315.5	344.7	375.2	582.0	540.8	1213.8	3533.1	3739.9	3935.1
72.5°	271.4	262.8	302.7	333.2	452.7	414.8	501.7	2713.9	2966.0	3574.7
75°	210.5	204.7	238.9	293.3	340.2	323.7	317.2	1648.0	1923.1	2764.6
77.5°	166.8	159.0	190.3	228.6	306.0	244.2	231.1	709.7	982.3	1764.9
80°	125.6	118.6	144.6	180.8	235.2	184.1	149.5	289.6	370.3	894.2
82.5°	89.4	83.2	100.9	132.6	158.2	165.2	91.9	162.3	182.5	344.7
85°	57.3	53.5	67.5	83.2	100.5	106.3	56.0	84.8	93.1	142.1
87.5°	31.3	25.5	36.2	38.7	46.5	42.4	26.8	30.9	33.4	51.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
874.8	0°	874.8	874.8	874.8	874.8	874.8	874.8	874.8	874.8	874.8	874.8
876.5	2.5°	878.1	879.4	883.5	884.7	887.6	891.3	893.8	896.3	896.3	898.7
889.7	5°	890.1	893.0	901.6	906.1	913.6	921.0	925.5	930.9	934.2	935.8
910.7	7.5°	913.1	917.7	930.0	937.9	950.6	960.9	967.9	975.3	977.0	981.5
939.9	10°	944.5	949.8	963.8	978.6	993.9	1006.6	1013.2	1018.6	1020.7	1021.5
977.4	12.5°	980.3	988.1	1006.2	1024.4	1040.4	1051.5	1053.2	1052.0	1046.2	1041.2
1023.5	15°	1024.4	1031.4	1051.5	1071.3	1087.0	1089.0	1078.7	1072.1	1065.1	1063.9
1075.0	17.5°	1077.1	1080.8	1099.3	1118.7	1119.9	1112.9	1097.7	1091.5	1084.9	1080.4
1142.2	20°	1138.4	1137.2	1150.4	1158.6	1150.0	1128.6	1105.5	1095.2	1088.6	1083.3
1224.5	22.5°	1211.8	1202.3	1200.6	1198.6	1175.5	1130.6	1099.3	1086.1	1075.8	1068.4
1339.4	25°	1318.4	1282.2	1257.1	1243.1	1191.2	1119.5	1079.6	1050.3	1030.9	1018.2
1479.9	27.5°	1451.9	1390.9	1327.5	1293.3	1191.2	1096.8	1031.8	984.4	952.7	939.5
1615.8	30°	1579.2	1515.3	1421.8	1353.9	1188.3	1059.8	954.7	888.8	851.8	838.6
1732.0	32.5°	1687.9	1618.3	1521.9	1420.2	1181.3	999.6	859.2	786.3	750.5	734.8
1846.9	35°	1788.8	1714.7	1622.4	1493.1	1162.8	911.5	754.2	698.6	658.6	633.5
1963.9	37.5°	1892.2	1804.1	1717.6	1559.0	1129.4	808.5	673.4	626.1	579.1	545.3
2088.3	40°	2004.6	1899.2	1819.3	1598.1	1074.6	710.5	610.8	567.6	517.7	481.9
2231.6	42.5°	2136.0	2013.3	1932.6	1618.3	999.6	640.9	570.0	527.6	480.7	451.4
2385.2	45°	2273.2	2138.9	2035.9	1617.9	916.0	608.4	556.9	514.9	463.0	432.5
2543.0	47.5°	2416.9	2270.3	2125.3	1591.5	843.5	612.9	549.5	487.3	430.0	400.4
2702.4	50°	2561.1	2414.1	2211.8	1542.1	812.6	603.0	521.9	448.5	381.0	354.2
2851.9	52.5°	2704.0	2566.9	2286.4	1471.7	781.3	566.3	486.4	398.3	360.8	342.3
3006.3	55°	2847.8	2718.0	2367.5	1369.1	703.1	523.5	427.1	379.3	344.7	327.9
3157.5	57.5°	2991.9	2892.7	2444.5	1266.5	604.6	470.8	394.6	356.3	328.7	314.3
3284.0	60°	3141.9	3092.4	2524.0	1172.2	507.4	403.2	370.7	337.7	309.7	293.7
3405.5	62.5°	3296.3	3312.4	2586.2	1050.7	418.1	362.0	349.3	315.5	288.3	273.1
3506.0	65°	3452.0	3524.5	2627.0	882.3	339.0	322.9	326.2	291.2	263.6	250.4
3579.7	67.5°	3569.4	3677.3	2615.5	667.7	278.0	285.8	297.4	265.7	239.7	229.4
3567.7	70°	3582.6	3659.2	2501.8	457.2	232.7	249.6	265.3	240.5	213.8	206.4
3399.7	72.5°	3407.1	3412.1	2185.0	298.6	196.9	219.1	231.5	215.0	189.1	181.6
2974.2	75°	2947.0	2821.8	1604.3	196.9	164.8	188.2	199.8	188.2	163.1	164.8
2225.4	77.5°	2232.8	1998.5	974.1	140.0	137.6	158.2	173.8	165.6	144.2	161.9
1119.1	80°	1150.4	1081.2	434.5	104.6	108.7	126.4	142.9	132.2	114.1	108.7
250.0	82.5°	263.6	306.4	171.3	75.0	78.7	91.0	109.1	99.3	82.0	69.2
104.2	85°	92.3	100.9	75.8	47.0	46.1	56.8	74.1	66.3	55.6	44.5
44.1	87.5°	29.2	38.3	28.4	18.9	19.8	25.5	34.2	31.3	25.9	16.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
874.8
898.7
936.6
979.9
1019.4
1041.2
1063.9
1080.8
1083.7
1070.9
1023.1
946.1
846.4
742.6
641.7
554.4
488.9
457.2
437.4
404.5
355.9
342.3
326.2
311.8
292.4
272.7
250.0
229.8
206.8
181.2
159.0
142.5
99.3
68.4
47.0
17.7
0.0

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